

REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)

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File Information Unit

In re: Application of <b>Koenck</b>	
Application Number <b>8/879475</b>	Filed <b>6-20-97</b>
Group or Unit	Examiner

Paper No. 30

Assistant Commissioner for Patents  
Washington, DC 20231

I hereby request access under 37 CFR 1.14(a)(1) to the application file record of the above-identified ABANDONED application, which is ABANDONED:

- \_\_\_ (A) referred to in United States Patent Number 5889386 column \_\_\_
- \_\_\_ (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. \_\_\_\_\_, filed \_\_\_\_\_, on page \_\_\_\_\_ of paper number \_\_\_\_\_
- \_\_\_ (C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No. \_\_\_\_\_, filed \_\_\_\_\_, or
- \_\_\_ (D) an application in which the applicant has filed an authorization to lay open the complete application to the public.

Please direct any correspondence concerning this request to the following address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Cindy Hillman

Signature

5-19-00

Date



[11] Patent Number: 5,889,386

[45] **Date of Patent:** Mar. 30, 1999

- [56]
- References Cited**

3,971,980	7/1976	Jungfer et al. .
4,295,097	10/1981	Thompson et al. .
4,377,787	3/1983	Kikuoka et al. .

- Primary Examiner*—Edward H. Tso

- Assistant Examiner—K. Shin

[21] Appl. No.: 82,061

[57] **ABSTRACT**

- [22] Filed: May 20, 1998

### Related U.S. Application Data

- [63] Continuation of Ser. No. 879,475, Jun. 20, 1997, which is a continuation of Ser. No. 561,665, Nov. 22, 1995, abandoned, which is a continuation of Ser. No. 134,881, Oct. 12, 1993, Pat. No. 5,508,599, which is a continuation of Ser. No. 769,337, Oct. 1, 1991, Pat. No. 5,278,487, which is a continuation of Ser. No. 544,230, Jun. 19, 1990, abandoned, which is a division of Ser. No. 422,226, Oct. 16, 1989, Pat. No. 4,961,043, which is a division of Ser. No. 168,352, Mar. 15, 1988, Pat. No. 4,885,523, which is a continuation-in-part of Ser. No. 944,503, Dec. 18, 1986, Pat. No. 4,737,702, which is a continuation-in-part of Ser. No. 876,194, Jun. 19, 1986, Pat. No. 4,709,202, which is a division of Ser. No. 797,235, Nov. 12, 1985, Pat. No. 4,716,354, which is a continuation-in-part of Ser. No. 612,588, May 21, 1984, Pat. No. 4,553,081, which is a continuation-in-part of Ser. No. 385,830, Jun. 7, 1982, Pat. No. 4,455,523.

- [51] **Int. Cl.<sup>6</sup>** ..... **H02J 7/00**

- [52] **U.S. Cl.** ..... **320/136; 320/107; 320/112;**  
**320/114; 320/134; 320/427; 320/426**

- [58] **Field of Search** ..... 320/107, 106,  
320/112, 113, 114, 115, 116, 134, 136;  
324/426-435

**20 Claims, 24 Drawing Sheets**

